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## Claims

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- 1. A method for determining one or more analytes in a body fluid comprising immersing in said fluid a set of electrodes comprising a working electrode, a reference electrode and a counter electrode; applying a varying potential to the working electrode and measuring the electrochemical outcome, thereby providing an output signal related to the composition of the fluid.
- 2. A method according to claim 1 wherein said fluid is selected from interstitial fluid, whole blood, plasma, urine and saliva.
  - 3. A method according to claim 2 wherein said fluid is interstitial fluid.
- 4. A method according to any preceding claim wherein the application of the varying potential is preceded by the application of one or more electrode cleaning pulses.
  - 5. A method according to any preceding claim wherein the output signal is analysed to provide data about the concentration of one or more analytes.
    - 6. A method according to claim 5 wherein the output signal is analysed to provide data about the concentration of plural analytes.

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7. A method according to claim 5 or claim 6 wherein the analysis employs a multivariate calibration technique.

8. A method according to any preceding claim wherein fluid is made more alkaline or acidic prior to determination.

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- 9. A method according to any preceding claim wherein said electrodes are film electrodes provided on a substrate.
  - 10. A method according to any preceding claim wherein the electrodes are provided within a capillary element which is partly immersed in the fluid whereupon fluid rises into the element by capillary action to contact the electrodes.
  - 11. A method according to any preceding claim wherein the electrodes are coated with a semipermeable film that permits passage of the analyte(s) but not proteins.
- 12. Apparatus for carrying out the method of any preceding claim, comprising an electrode assembly and capillary means for conveying fluid for analysis to the electrodes.

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13. Apparatus according to claim 12 wherein the capillary means contain means for rendering the fluid more alkaline or acidic.